

DYNAMIC REDISTRIBUTION OF PARITY GROUPS

Abstract

A system and method for dynamic redistribution of parity groups is described.

5 The system and method for dynamic redistribution of parity groups operates on a computer storage system that includes a plurality of disk drives for storing parity groups. Each parity group includes storage blocks. The storage blocks include one or more data blocks and a parity block that is associated with the data blocks. Each of the storage blocks is stored on a separate disk drive such that no two storage blocks from a

10 given parity set reside on the same disk drive. The computer system further includes a redistribution module to dynamically redistribute parity groups by combining some parity groups to improve storage efficiency.

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